

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-14 (Cancelled)

Claim 15 (Currently Amended): A cooker or fire screen or flue insert, comprising a door having a pane of glass positioned to be in direct contact with a hot atmosphere, wherein the glass comprises at least one type of alkali metal ion, an alkali-metal-ion concentration gradient from its surface over an exchange depth of at least 100 μm , a surface stress of at least 200 MPa and a strain point in the core of at least 550°C,

wherein the glass comprises an interdiffusion coefficient, at 490°C, of exchanged alkali metal ions, of less than $2 \times 10^{-15} \text{ m}^2 \cdot \text{s}^{-1}$.

Claim 16 (Currently Amended): An oven, comprising a door having a pane of glass positioned to be in direct contact with a hot atmosphere, wherein the glass comprises at least one type of alkali metal ion, an alkali-metal-ion concentration gradient from its surface over an exchange depth of at least 100 μm , a surface stress of at least 200 MPa and a strain point in the core of at least 550°C,

wherein the glass comprises an interdiffusion coefficient, at 490°C, of exchanged alkali metal ions, of less than $2 \times 10^{-15} \text{ m}^2 \cdot \text{s}^{-1}$.

Claim 17 (Previously Presented): The oven of claim 16, wherein the oven is a pyrolytic oven.

Claim 18 (Currently Amended): A stove, comprising a door having a pane of glass positioned to be in direct contact with a hot atmosphere, wherein the glass comprises at least

one type of alkali metal ion, an alkali-metal-ion concentration gradient from its surface over an exchange depth of at least 100 μm , a surface stress of at least 200 MPa and a strain point in the core of at least 550°C,

wherein the glass comprises an interdiffusion coefficient, at 490°C, of exchanged alkali metal ions, of less than $2 \times 10^{-15} \text{ m}^2 \cdot \text{s}^{-1}$.

Claims 19 -21 (Cancelled)

Claim 22 (Previously Presented) The cooker or fire screen or flue insert of claim 15, wherein the glass comprises an interdiffusion coefficient, at 400°C, of alkali metal ions exchanged, of at most $9 \times 10^{-17} \text{ m}^2 \cdot \text{s}^{-1}$.

Claim 23 (Previously Presented): The cooker or fire screen or flue insert of claim 15, wherein the ratio of the interdiffusion coefficient, at 490°C, of the exchanged alkali metal ions, to the interdiffusion coefficient, at 400°C, of the exchanged alkali metal ions, is at least 20 : 1.

Claim 24 (Cancelled).

Claim 25 (Previously Presented): The cooker or fire screen or flue insert of claim 15, wherein the strain point in the core is at least 570°C.

Claim 26 (Previously Presented): The cooker or fire screen or flue insert of claim 15, wherein the at least one type of alkali metal ion is selected from the group consisting of Na^+ , Li^+ , K^+ and combinations thereof.

Claim 27 (Previously Presented): The cooker or fire screen or flue insert of claim 15, wherein the exchange depth is at most 300 μm .

Claim 28 (Previously Presented): The cooker or fire screen or flue insert of claim 15, wherein the thickness of the pane ranges from 2 to 7 mm.

Claim 29 (Previously Presented): The cooker or fire screen or flue insert of claim 15, wherein the thickness of the pane ranges from 2.8 to 5 mm.

Claim 30 (Previously Presented) The oven of claim 16, wherein the glass comprises an interdiffusion coefficient, at 400°C, of alkali metal ions exchanged, of at most $9 \times 10^{-17} \text{ m}^2 \cdot \text{s}^{-1}$.

Claim 31 (Previously Presented): The oven of claim 16, wherein the ratio of the interdiffusion coefficient, at 490°C, of the exchanged alkali metal ions, to the interdiffusion coefficient, at 400°C, of the exchanged alkali metal ions, is at least 20 : 1.

Claim 32 (Cancelled)

Claim 33 (Previously Presented): The oven of claim 16, wherein the strain point in the core is at least 570°C.

Claim 34 (Previously Presented): The oven of claim 16, wherein the at least one type of alkali metal ion is selected from the group consisting of Na^+ , Li^+ , K^+ and combinations thereof.

Claim 35 (Previously Presented): The oven of claim 16, wherein the exchange depth is at most 300 μm .

Claim 36 (Previously Presented): The oven of claim 16, wherein the thickness of the pane ranges from 2 to 7 mm.

Claim 37 (Previously Presented): The oven of claim 16, wherein the thickness of the pane ranges from 2.8 to 5 mm.

Claim 38 (Previously Presented) The stove of claim 18, wherein the glass comprises an interdiffusion coefficient, at 400°C, of alkali metal ions exchanged, of at most $9 \times 10^{-17} \text{ m}^2 \cdot \text{s}^{-1}$.

Claim 39 (Previously Presented): The stove of claim 18, wherein the ratio of the interdiffusion coefficient, at 490°C, of the exchanged alkali metal ions, to the interdiffusion coefficient, at 400°C, of the exchanged alkali metal ions, is at least 20 : 1.

Claim 40 (Cancelled).

Claim 41 (Previously Presented): The stove of claim 18, wherein the strain point in the core is at least 570°C.

Claim 42 (Previously Presented): The stove of claim 18, wherein the at least one type of alkali metal ion is selected from the group consisting of Na^+ , Li^+ , K^+ and combinations thereof.

Claim 43 (Previously Presented): The stove of claim 18, wherein the exchange depth is at most 300 μm .

Claim 44 (Previously Presented): The stove of claim 18, wherein the thickness of the pane ranges from 2 to 7 mm.

Claim 45 (Previously Presented): The stove of claim 18, wherein the thickness of the pane ranges from 2.8 to 5 mm.

Claim 46 (Previously Presented) The cooker or fire screen or flue insert of claim 15, further comprising a second pane of glass and wherein the glass that comprises at least one type of alkali metal ion is positioned to be in direct contact with the hot atmosphere.

Claim 47 (Previously Presented) The oven of claim 16, further comprising a second pane of glass and wherein the glass that comprises at least one type of alkali metal ion is positioned to be in direct contact with the hot atmosphere.

Claim 48 (Previously Presented) The stove of claim 18, further comprising a second pane of glass and wherein the glass that comprises at least one type of alkali metal ion is positioned to be in direct contact with the hot atmosphere.

Claim 49 (Previously Presented) The cooker or fire screen or flue insert of claim 15, wherein the glass separates two gaseous atmospheres at different temperatures, wherein the first gaseous atmosphere is at a temperature from 300 to 530°C and the second gaseous atmosphere is at a temperature of at least 50°C below the first gaseous atmosphere.

Claim 50 (Previously Presented) The oven of claim 16, wherein the glass separates two gaseous atmospheres at different temperatures, wherein the first gaseous atmosphere is at a temperature from 300 to 530°C and the second gaseous atmosphere is at a temperature of at least 50°C below the first gaseous atmosphere.

Claim 51 (Previously Presented) The stove of claim 18, wherein the glass separates two gaseous atmospheres at different temperatures, wherein the first gaseous atmosphere is at a temperature from 300 to 530°C and the second gaseous atmosphere is at a temperature of at least 50°C below the first gaseous atmosphere.

Claim 52 (New) The cooker or fire screen or flue insert of claim 15, wherein the pane of glass is positioned inside of the cooker or fire screen or flue.

Claim 53 (New) The oven of claim 16, wherein the pane of glass is positioned inside of the oven.

Claim 54 (New) The stove of claim 18, wherein the pane of glass is positioned inside of the stove.

Claim 55 (New) A glass comprising at least one type of alkali metal ion, an alkali-metal-ion concentration gradient from its surface over an exchange depth of at least 100 μm , a surface stress of at least 200 MPa and a strain point in the core of at least 550°C, wherein the glass has an interdiffusion coefficient, at 490°C, of exchanged alkali metal ions, of less than $2 \times 10^{-15} \text{ m}^2.\text{s}^{-1}$.

Claim 56 (New) The glass of claim 55, wherein the glass comprises an interdiffusion coefficient, at 400°C, of alkali metal ions exchanged, of at most $9 \times 10^{-17} \text{ m}^2.\text{s}^{-1}$.

Claim 57 (New): The glass of claim 56, wherein the ratio of the interdiffusion coefficient, at 490°C, of the exchanged alkali metal ions, to the interdiffusion coefficient, at 400°C, of the exchanged alkali metal ions, is at least 20 : 1.

Claim 58 (New) The glass of claim 55, wherein the strain point in the core is at least 570°C.

Claim 59 (New) The glass of claim 55, wherein the at least one type of alkali metal ion is selected from the group consisting of Na^+ , Li^+ , K^+ and combinations thereof.

Claim 60 (New): The glass of claim 55, wherein the exchange depth is at most 300 μm .

Claim 61 (New): The glass of claim 55 in the form of a pane.

U.S. application serial no. 10/577,559
Reply to Official Action of December 17, 2010

Claim 62 (New): The pane of claim 61, wherein the thickness of the pane ranges from 2 to 7 mm.

Claim 63 (New): A door comprising the pane of claim 61.